

TABLE OF CONTENTS

1.0	BACKGROUND	1-1
1.1	PROJECT LOCATION	1-1
1.2	PURPOSE AND NEED.....	1-1
1.3	SCOPE OF THE ENVIRONMENTAL ASSESSMENT	1-1
2.0	DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES	2-1
2.1	PROPOSED ACTION.....	2-1
2.2	NO-ACTION ALTERNATIVE.....	2-5
2.3	REASONABLE ALTERNATIVES	2-5
2.4	OTHER ALTERNATIVES CONSIDERED BUT OMITTED FROM FURTHER ANALYSIS.....	2-5
	2.4.1 Construct or Modify Water Transfer Facilities.....	2-5
	2.4.2 Enlarge Storage Facilities Within the Friant Division.....	2-5
3.0	AFFECTED ENVIRONMENT	3-1
3.1	HYDROLOGIC RESOURCES	3-1
3.1.1	Surface Water	3-1
3.1.1.1	Regional Setting	3-1
3.1.2	Groundwater	3-5
3.1.2.1	Regional Setting	3-5
3.1.3	Water Quality.....	3-6
3.1.3.1	Surface Water	3-6
3.1.3.2	Groundwater.....	3-8
3.2	BIOLOGICAL RESOURCES	3-9
3.2.1	Regional Setting.....	3-9
3.2.2	Regulatory Setting	3-10
3.2.3	Biological Resources	3-10
3.3	CULTURAL RESOURCES	3-18
3.3.1	Prehistoric Resources.....	3-18
3.3.2	Historic Resources	3-19
	3.3.2.1 Native American Resources	3-20
3.4	AGRICULTURAL RESOURCES	3-20
3.5	LAND USE.....	3-21
3.5.1	Regional Setting.....	3-21
3.6	AIR QUALITY	3-21
3.7	NOISE.....	3-22
3.8	GEOLOGY	3-23
3.8.1	Regional Setting.....	3-23
3.8.2	Soils	3-24
	3.8.2.1 Soil Drainage Problems in the SJV	3-24
3.9	RECREATIONAL RESOURCES.....	3-25
3.9.1	Regional Setting.....	3-25
3.10	SOLID WASTE MANAGEMENT	3-25
3.11	HAZARDOUS MATERIALS/WASTE MANAGEMENT	3-26
3.12	SOCIOECONOMICS	3-27
	3.12.1 Regional Setting.....	3-27
3.13	HEALTH AND SAFETY	3-28

3.14	VISUAL RESOURCES.....	3-28
3.14.1	Regional Setting.....	3-28
3.15	UTILITIES.....	3-29
3.16	ENVIRONMENTAL JUSTICE	3-29
4.0	ENVIRONMENTAL CONSEQUENCES	4-1
4.1	HYDROLOGIC RESOURCES	4-2
4.1.1	Proposed Action.....	4-2
4.1.2	No-Action Alternative	4-2
4.1.3	Mitigation Measures	4-2
4.2	BIOLOGICAL RESOURCES	4-2
4.2.1	Proposed Action.....	4-3
4.2.2	No-Action Alternative	4-4
4.2.3	Mitigation Measures	4-4
4.3	CULTURAL RESOURCES	4-4
4.3.1	Proposed Action.....	4-5
4.3.2	No-Action Alternative	4-5
4.3.3	Mitigation Measures	4-5
4.4	AGRICULTURAL RESOURCES	4-5
4.4.1	Proposed Action.....	4-5
4.4.2	No-Action Alternative	4-6
4.4.3	Mitigation Measures	4-6
4.5	LAND USE.....	4-6
4.5.1	Proposed Action.....	4-6
4.5.2	No-Action Alternative	4-6
4.5.3	Mitigation Measures	4-7
4.6	AIR QUALITY	4-7
4.6.1	Proposed Action.....	4-8
4.6.2	No-Action Alternative	4-8
4.6.3	Mitigation Measures	4-8
4.7	NOISE.....	4-8
4.7.1	Proposed Action.....	4-8
4.7.2	No-Action Alternative	4-9
4.7.3	Mitigation Measures	4-9
4.8	GEOLOGY AND SOILS	4-9
4.8.1	Proposed Action.....	4-9
4.8.2	No-Action Alternative	4-9
4.8.3	Mitigation Measures	4-9
4.9	RECREATIONAL RESOURCES	4-10
4.9.1	Proposed Action.....	4-10
4.9.2	No-Action Alternative	4-10
4.9.3	Mitigation Measures	4-10
4.10	SOLID WASTE MANAGEMENT	4-10
4.10.1	Proposed Action.....	4-10
4.10.2	No-Action Alternative	4-10
4.10.3	Mitigation Measures	4-10
4.11	HAZARDOUS MATERIALS/HAZARDOUS WASTE MANAGEMENT.....	4-10
4.11.1	Proposed Action.....	4-11
4.11.2	No-Action Alternative	4-11

4.12	4.11.3 Mitigation Measures	4-11
	SOCIOECONOMICS	4-11
	4.12.1 Proposed Action.....	4-11
	4.12.2 No-Action Alternative	4-12
	4.12.3 Mitigation Measures	4-12
4.13	HEALTH AND SAFETY	4-12
	4.13.1 Proposed Action.....	4-12
	4.13.2 No-Action Alternative	4-12
	4.13.3 Mitigation Measures	4-12
4.14	VISUAL RESOURCES.....	4-12
	4.14.1 Proposed Action.....	4-12
	4.14.2 No-Action Alternative	4-13
	4.14.3 Mitigation Measures	4-13
4.15	UTILITIES.....	4-13
	4.15.1 Proposed Action.....	4-13
	4.15.2 No-Action Alternative	4-13
	4.15.3 Mitigation Measures	4-13
4.16	ENVIRONMENTAL JUSTICE	4-13
	4.16.1 Proposed Action.....	4-14
	4.16.2 No-Action Alternative	4-14
	4.16.3 Mitigation Measures	4-14
4.17	CUMULATIVE IMPACTS.....	4-14
	4.17.1 Reasonably Foreseeable Actions in the Project Area	4-14
	4.17.2 Proposed Action.....	4-15
	4.17.3 No-Action Alternative	4-16
	4.17.4 Mitigation Measures	4-16
5.0	APPLICABLE REGULATIONS AND AGENCY COORDINATION.....	5-1
5.1	FEDERAL REGULATIONS.....	5-1
6.0	PERSONS AND AGENCIES CONTACTED	6-1
7.0	REFERENCES	7-1
8.0	LIST OF PREPARERS.....	8-1
9.0	ACRONYMS AND ABBREVIATIONS	9-1

APPENDICES

- A POTENTIAL ORIGINATORS OF TRANSFER/EXCHANGE
- B POTENTIAL RECIPIENTS OF WATER TRANSFER/EXCHANGE
- C KERN COUNTY WATER AGENCY MEMBER UNITS

LIST OF FIGURES

1-1	Regional Location Map	1-3
2-1	Project Area Map	2-3

LIST OF TABLES

3-1	Sources of Water for Kern County Water Agency	3-5
3-2	California Aqueduct O'Neill FB Outlet (Check 13) Water Quality 12/98 to 12/99	3-7
3-3	Friant Kern Canal Mile Point 122.05 to 0.5 mile Below Delano Reservoir Water Quality - 4/57 to 9/98	3-8
3-4	Federal and State Special Status Species in the SJV	3-11
3-5	SJVUAPCD Non-Attainment of Air Quality Standards.....	3-22
3-6	Central Valley Demographics 1998.....	3-27
3-7	Labor by Industry Sector (percent) 1998.....	3-27
3-8	Individuals Below Poverty Level by County 1996.....	3-30
3-9	Population Estimates for Counties by Race and Hispanic Origin: July 1, 1998.....	3-30